



**Landfill Superintendent..... Scott O'Laughlin**

## Service Statement

Landfill staff is responsible for safe, efficient and regulatory-compliant disposal of all non-hazardous solid waste in Midland County. Midland is a closed county, meaning Midland waste does not leave and waste from other counties or states does not enter the county for disposal. The site is open Monday through Friday, 8:00 a.m. – 4:00 p.m. all year, and on Saturdays from 8:30 a.m. – noon during the months of March through November. We process an average of over 100 vehicles per day, which amounts to roughly 550 tons per day of waste that's buried.

The site began filling Cell 16 in fiscal year 2007-08, a cell construction project, which added 11 acres of waste disposal. Including future cell construction, the site has an estimated life of over 40 years remaining. We are also investigating the addition of a Type III (inert waste) waste disposal cell on the property to further extend the site life. Finally, the new technology of bioreactor, or liquid introduction to waste, cells is being implemented into the operation over the next few years. Along with the installation of a landfill gas collection system during the current fiscal year for conversion to energy, the site will reduce gas migration off the property and offset of current energy use, and in the future provide a source of revenue through energy sale. These projects are subject to review and approval by our regulatory agency, the Michigan Department of Environmental Quality, in accordance with Part 115 of PA 451, as amended.

The City also runs a large scale yard waste composting operation on the property. Over 40,000 cubic yards of leaves and grass are ground, mixed, rotated several times and eventually screened to generate high-quality compost. The material is currently used completely on City projects.

We support recycling and education at the site. We have a scrap metal drop-off area where metals are collected for disposal at a recycling yard, which also provides some revenue. Concrete and asphalt are recycled when brought to the site, and their use results in good road conditions in the waste disposal area. Tours are provided to hundreds of school students each year promoting recycling.

We have consultants perform groundwater, surface water and air monitoring at the site to ensure we are not releasing pollutants from the site. Landfill staff strives to maintain a park-like appearance through grounds keeping, litter control and dust minimization.

The Landfill provides a drop off location for five to six household hazardous waste collections held annually. The materials are taken off site for proper disposal by a hazardous waste disposal firm. The program is provided to citizens at no expense. Electronic waste collections for recycling have also been added to minimize the amount of those materials being disposed of at the site.

Citizens have convenient access to dumpsters on a paved, elevated pad for disposal of small volumes of waste. Each household in the City of Midland and Midland County is allowed a single visit each month of up to three cubic yards of waste at no charge (excludes tires; maximum one appliance). Additional volume or visits within the calendar month are charged at the rates posted at the site and in the City's Code of Ordinances. Disposal fees were reduced in 2003 for all waste types, and had not increased during the ten prior years.

## Functions

### **Waste Disposal for Midland County**

- Residential waste drop-off area for convenient disposal for citizens, including 3 yards per residence per month for free
- Commercial/industrial non-hazardous solid waste
- Asbestos
- Contaminated soil

### **Recycling**

- Yard waste: 40,000+ yards of leaves & grass processed into compost annually
- Grinds up brush for internal use
- Separates scrap metal where possible and sells for scrap value
- Keeps concrete & asphalt waste separate for crush-ing & reuse as road or road base material on site
- Uses waste foundry sand for daily waste cover, avoiding use of virgin sand for cover
- Supports Midland Area Recycling Center, located on site
- Provides tours to schools from pre-kindergarten through college

### **Site Maintenance**

- Maintains park-like appearance
- Dust minimization
- Controls litter
- Erosion prevention
- Gas odor control
- Pump system maintenance

### **Regulatory Compliance/Environmental Stewardship**

- Customer service: processes an average of over 100 vehicles daily
- Inspects loads to prevent prohibited waste disposal
- Keeps records for reporting to Michigan Department of Environmental Quality
- Monitors groundwater to verify no contamination of water table beneath site
- Installing a landfill gas collection system to reduce odor concerns and generate energy
- Designing bioreactor landfill cell to extend site life and reduce future liability

## Department at a Glance

Funding Level Summary	2007-08 Actual	2008-09 Actual	Adjusted 2009-10 Budget	Estimated 2009-10 Budget	Adopted 2010-11 Budget	% of Change
Landfill	\$ 4,178,779	\$ 5,732,492	\$ 6,229,030	\$ 4,929,571	\$ 4,056,982	-17.7%
<b>Total Department</b>	<b>\$ 4,178,779</b>	<b>\$ 5,732,492</b>	<b>\$ 6,229,030</b>	<b>\$ 4,929,571</b>	<b>\$ 4,056,982</b>	<b>-17.7%</b>
Personal Services	\$ 885,246	\$ 930,889	\$ 1,012,378	\$ 929,347	\$ 1,019,268	9.7%
Supplies	211,655	188,007	201,449	200,118	195,949	-2.1%
Other Services/Charges	1,236,854	1,609,886	1,589,041	1,557,422	1,310,565	-15.9%
Perpetual Care	-	-	125,000	125,000	125,000	0.0%
Miscellaneous	162,032	81,778	45,000	57,332	56,200	-2.0%
Capital Outlay	1,682,992	2,848,200	2,882,162	1,686,352	1,350,000	-19.9%
Interfund Loans Issued	-	-	374,000	374,000	-	-100.0%
Operating Transfers Out	-	73,732	-	-	-	0.0%
<b>Total Department</b>	<b>\$ 4,178,779</b>	<b>\$ 5,732,492</b>	<b>\$ 6,229,030</b>	<b>\$ 4,929,571</b>	<b>\$ 4,056,982</b>	<b>-17.7%</b>

### Personnel Summary

Full-Time	9	9	9	9	9
Regular Part-Time	-	-	-	-	-
<b>Total Department</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>	<b>9</b>

## Summary of Budget Changes

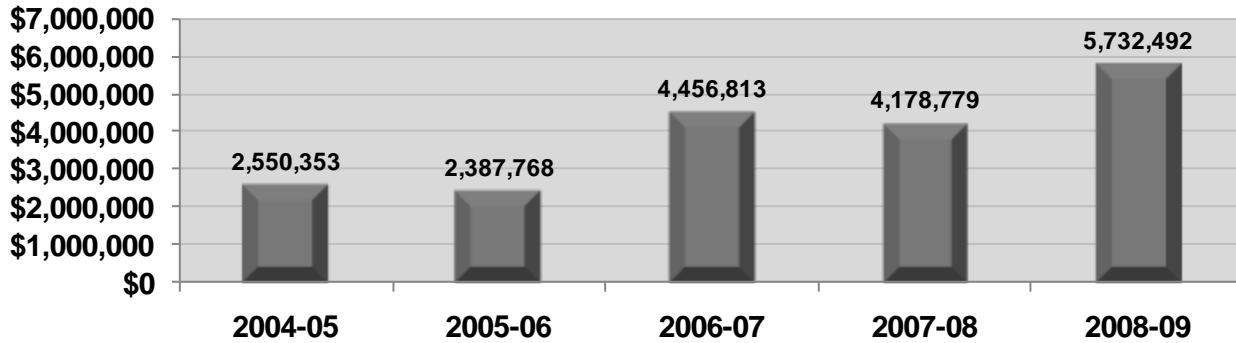
### Significant Notes – 2010-11 Budget Compared to 2009-10 Budget

Fiscal year 2010-11 will continue with projects already underway. Cell 16 continues to be the primary waste disposal cell, and will for years to come. This fiscal year will bring the request to MDEQ to allow introduction of liquid into Cell 16 to encourage gas production. The increased gas production would be collected through the active gas collection system expected to be constructed by July 2010. Originally planned for construction in the 2008-09 fiscal year, the project was delayed to potentially receive funding for 40% of the project from a federal government program this year. This system will reduce odors leaving the site, minimize environmental impact of the site and lead to a 2010-11 fiscal year gas-to-energy facility that will generate revenue for the life of the Landfill site. Work for the planned Type III – Construction and Demolition Debris cell has been postponed to focus on the gas to energy program's state, and also due to a short term reduction in waste volume.

In fall 2009, a portion of raw compost and ground wood waste on the property was sold, prior to most processing, for use in biological treatment of contaminated soils in Porter Township. This program will be continued in the 2010-11 fiscal year.

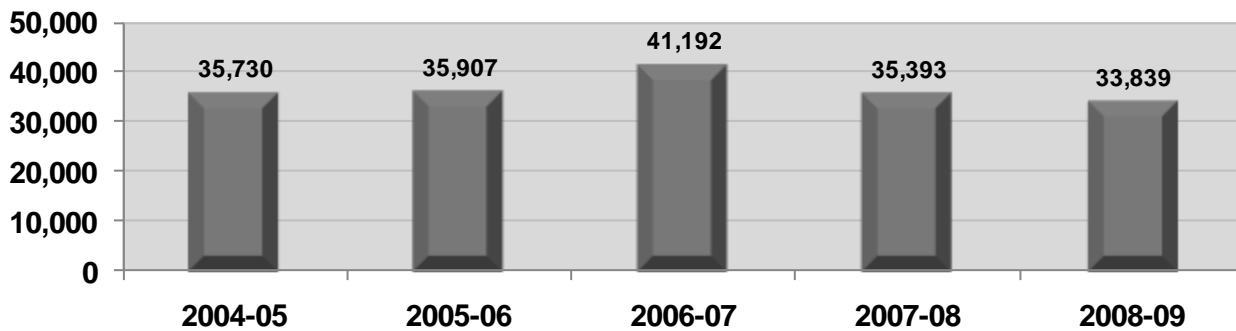
**Summary of Budget Changes (cont.)**

**5-Year Operating Budget History**

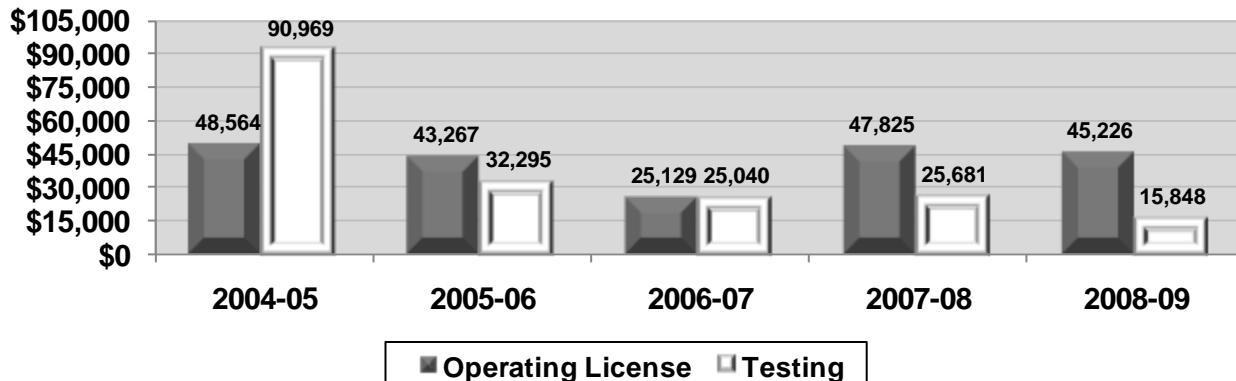


**Key Departmental Trends**

**Vehicle Count**

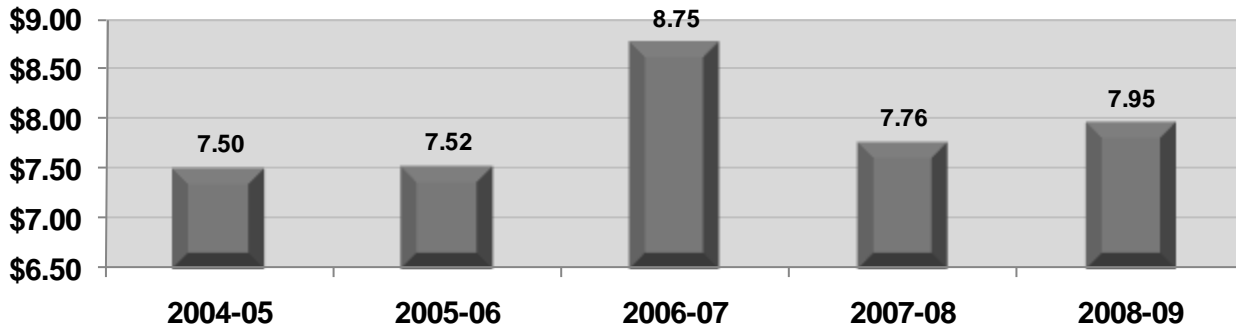


**Licensing and Testing Costs**

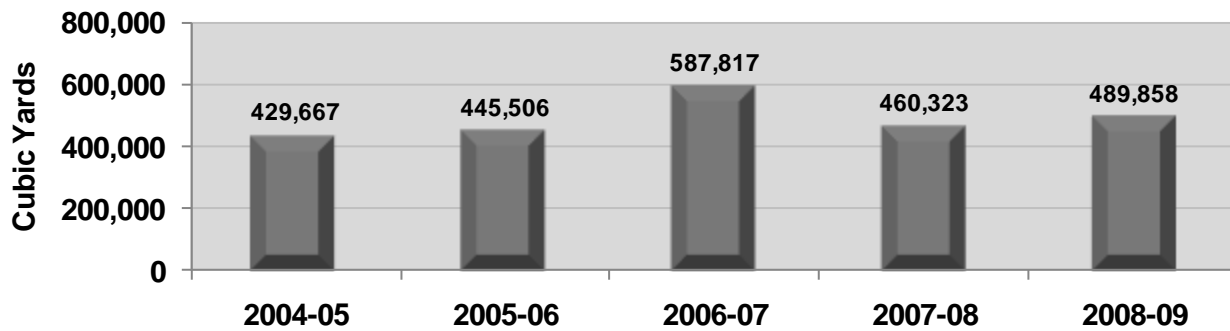


**Key Departmental Trends (cont.)**

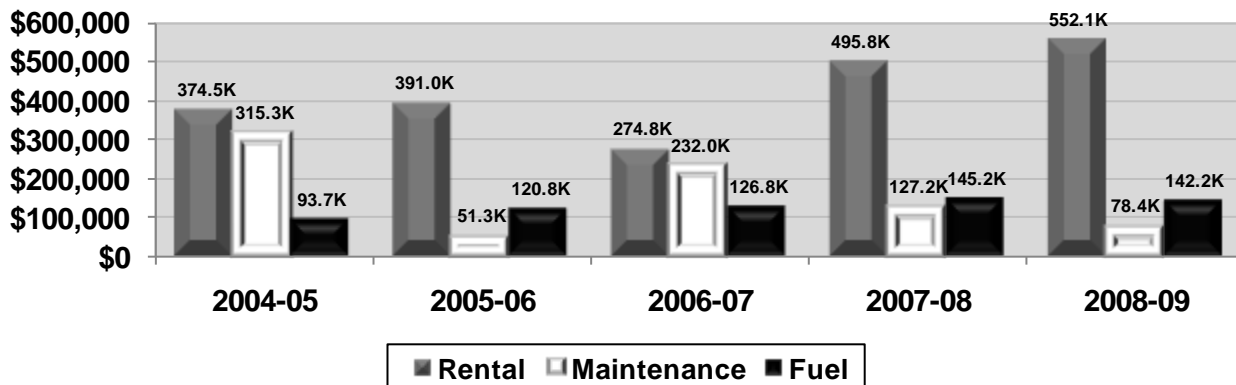
**Average Charge Per Yard**



**Total Waste Received at Gate**



**Equipment Operating Costs**



**Key Departmental Trends (cont.)**

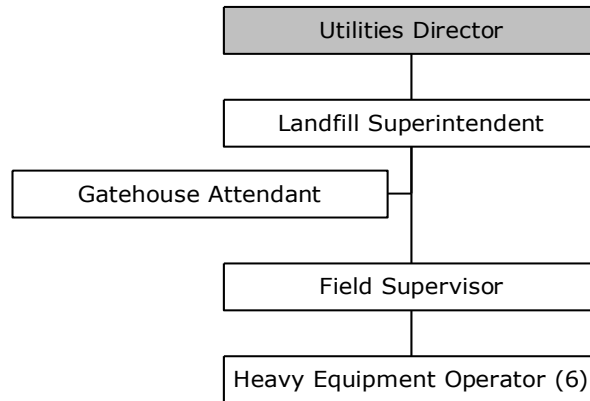


**Performance Objectives**

<b>Performance Indicators (OUTPUT)</b>	<b>2007-08 Actual</b>	<b>2008-09 Actual</b>	<b>% Change</b>
Vehicle Count	35,393	33,839	-4.4%
Air Space Capacity (Cubic Yards)	2,556,451	2,357,043	-7.8%
Air Space Consumed (Cubic Yards)	149,710	185,989	24.2%
Remaining Life of Open Cells (Years)	17.1	12.7	-25.7%
Yard Waste Received (Cubic Yards)	29,893	37,809	26.5%
Total Waste Received at Gate (Cubic Yards)	460,323	489,858	6.4%
Waste Received at Gate (Cubic Yards):			
Contractor	145,477	134,179	-7.8%
Demolition	159,353	159,454	0.1%
City Residence	40,812	43,162	5.8%
Heavy	38,484	37,928	-1.4%
Yard Waste	29,893	37,809	26.5%
Public	10,490	13,195	25.8%
Contaminated Soils	23,222	52,959	128.1%
Other	12,592	11,172	-11.3%

<b>Performance Indicators (EFFICIENCY)</b>	<b>2007-08 Actual</b>	<b>2008-09 Actual</b>	<b>% Change</b>
Average Waste Revenue per Cubic Yard	\$7.76	\$7.95	2.4%
Cubic yard of Waste Handled per Employee	57,540	61,232	6.4%
Average Cubic Yard per Vehicle	13.0	14.5	11.3%
Average Air Space Consumed per Vehicle	4.2	5.5	29.9%

**Organizational Chart**



Shaded boxes indicate a reporting structure to a department head that is funded outside of this budget.

<b>Staff Summary</b>	<b>Approved 2008-09</b>	<b>Approved 2009-10</b>	<b>Adopted 2010-11</b>
<u>Full-Time</u>			
Landfill Superintendent	1	1	1
Field Supervisor	1	1	1
Gatehouse Attendant	1	1	1
Heavy Equipment Operator	6	6	6
<b>Total Full-Time</b>	<b>9</b>	<b>9</b>	<b>9</b>
<u>Regular Part-Time</u>			
None	0	0	0
<b>Total Regular Part-Time</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Department Total</b>	<b>9</b>	<b>9</b>	<b>9</b>

FUND 517 - LANDFILL FUND  
 DETAIL OF BUDGET APPROPRIATIONS AND REVENUES  
 Fiscal Year Ending June 30, 2011

	2008-09	2009-10		2010-11
	Actual	Budget	Estimate	Adopted
<b>Operating Revenues</b>				
Township	\$ 402,541	\$ 402,750	\$ 402,718	\$ 402,750
Public	1,434,250	1,218,360	1,211,199	1,175,000
City - residential	400,374	411,030	410,614	410,000
Demolition	1,464,169	1,302,170	1,300,843	1,300,000
Penalties	6,327	1,790	2,030	1,500
<b>Total operating revenues</b>	<b>3,707,661</b>	<b>3,336,100</b>	<b>3,327,404</b>	<b>3,289,250</b>
<b>Operating Expenses</b>				
Personal services	930,889	1,012,378	929,347	1,019,268
Supplies	188,007	201,449	200,118	195,949
Other charges	1,609,886	1,589,041	1,557,422	1,310,565
Perpetual care	-	125,000	125,000	125,000
Reserve for contingencies	-	45,000	45,000	50,000
<b>Total operating expenses</b>	<b>2,728,782</b>	<b>2,972,868</b>	<b>2,856,887</b>	<b>2,700,782</b>
<b>Net Operating Income</b>	<b>978,879</b>	<b>363,232</b>	<b>470,517</b>	<b>588,468</b>
<b>Non-operating Revenues (Expenses)</b>				
Investment earnings	106,320	270,000	85,211	85,200
Interfund loan interest	26,192	19,644	19,644	13,096
Miscellaneous revenues	227,012	21,250	74,874	50,000
Miscellaneous expenses	(81,778)	-	(12,332)	(6,200)
<b>Total non-operating revenues (expenses)</b>	<b>277,746</b>	<b>310,894</b>	<b>167,397</b>	<b>142,096</b>
<b>Other Financing Sources (Uses)</b>				
Investment in assets	(2,848,200)	(2,882,162)	(1,686,352)	(1,350,000)
Operating transfers in	42,382	-	-	-
Operating transfers out	(73,732)	-	-	-
Interfund loans issued	-	(374,000)	(374,000)	-
Interfund loan proceeds	261,914	261,914	261,914	361,914
<b>Total other financing sources (uses)</b>	<b>(2,617,636)</b>	<b>(2,994,248)</b>	<b>(1,798,438)</b>	<b>(988,086)</b>
<b>Excess of Revenues and Other Sources Over (Under) Expenditures and Other Uses</b>	<b>(1,361,011)</b>	<b>(2,320,122)</b>	<b>(1,160,524)</b>	<b>(257,522)</b>
<b>Working Capital - beginning of year</b>	<b>5,788,429</b>	<b>4,427,418</b>	<b>4,427,418</b>	<b>3,266,894</b>
<b>Working Capital - end of year</b>	<b>\$ 4,427,418</b>	<b>\$ 2,107,296</b>	<b>\$ 3,266,894</b>	<b>\$ 3,009,372</b>

## LANDFILL FUND FIVE-YEAR FINANCIAL PLAN

	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15
<b>Operating Revenues</b>	<u>\$ 3,327,404</u>	<u>\$ 3,289,250</u>	<u>\$ 3,313,620</u>	<u>\$ 3,338,180</u>	<u>\$ 3,362,940</u>	<u>\$ 3,387,900</u>
<b>Operating Expenses</b>						
Personal services	929,347	1,019,268	1,065,135	1,113,066	1,163,154	1,215,496
Supplies	200,118	195,949	199,868	203,865	207,942	212,101
Other charges	1,557,422	1,310,565	1,336,776	1,363,512	1,390,782	1,418,598
Perpetual care	125,000	125,000	127,500	130,050	132,651	135,304
Reserve for contingencies	45,000	50,000	25,000	25,000	25,000	25,000
Total operating expenses	<u>2,856,887</u>	<u>2,700,782</u>	<u>2,754,279</u>	<u>2,835,493</u>	<u>2,919,529</u>	<u>3,006,499</u>
Net Operating Income	<u>470,517</u>	<u>588,468</u>	<u>559,341</u>	<u>502,687</u>	<u>443,411</u>	<u>381,401</u>
<b>Non-operating Revenues (Expenses)</b>						
Investment earnings	85,211	85,200	15,047	17,536	20,011	20,751
Interfund loan interest	19,644	13,096	6,548	-	-	-
Miscellaneous revenues	74,874	50,000	41,250	41,250	41,250	41,250
Miscellaneous expenses	(12,332)	(6,200)	(6,324)	(6,450)	(6,579)	(6,711)
Total non-operating revenues (expenses)	<u>167,397</u>	<u>142,096</u>	<u>56,521</u>	<u>52,336</u>	<u>54,682</u>	<u>55,290</u>
<b>Other Financing Sources (Uses)</b>						
Investment in Assets	(1,686,352)	(1,350,000)	(430,000)	(110,000)	(250,000)	(260,000)
Interfund loans issued	(374,000)	-	-	-	-	-
Interfund loan proceeds	261,914	361,914	361,914	100,000	100,000	-
Cell Development & Closure	-	-	(50,000)	(50,000)	(200,000)	(50,000)
Total other financing sources (uses)	<u>(1,798,438)</u>	<u>(988,086)</u>	<u>(118,086)</u>	<u>(60,000)</u>	<u>(350,000)</u>	<u>(310,000)</u>
Excess of Revenues and Other Sources Over (Under) Expenditures and Other Uses	<u>(1,160,524)</u>	<u>(257,522)</u>	<u>497,776</u>	<u>495,023</u>	<u>148,093</u>	<u>126,691</u>
<b>Working Capital - beginning of year</b>	<u>4,427,418</u>	<u>3,266,894</u>	<u>3,009,372</u>	<u>3,507,148</u>	<u>4,002,171</u>	<u>4,150,264</u>
<b>Working Capital - end of year</b>	<u>\$ 3,266,894</u>	<u>\$ 3,009,372</u>	<u>\$ 3,507,148</u>	<u>\$ 4,002,171</u>	<u>\$ 4,150,264</u>	<u>\$ 4,276,955</u>
Working capital (Goal = \$1 million)	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000	\$ 1,000,000
Working capital for cell development & closure	2,266,894	2,009,372	2,507,148	3,002,171	3,150,264	3,276,955
	<u>\$ 3,266,894</u>	<u>\$ 3,009,372</u>	<u>\$ 3,507,148</u>	<u>\$ 4,002,171</u>	<u>\$ 4,150,264</u>	<u>\$ 4,276,955</u>

### ASSUMPTIONS:

Rate adjustments	None
Growth rate	1.00%
Personal services increase per year	4.50%
Operating expense increase per year	2.00%
Investment earnings on working capital	0.50%
Investment in assets: five-year capital plan	